

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
 JANUARY-FEBRUARY 2009 WATER QUALITY DATA

Field Measurements:

DATE	TIME	TEMP	PH	DO	EC	TURBIDITY
(MM/DD/YY)	(HH:MM)	(°C) ¹		(mg/l) ²	(µmhos/cm) ³	(NTU) ⁴
01/28/09	13:10	13.43	7.78	9.13	5695	52.3
02/18/09	11:57	13.97	7.79	8.67	5533	29.3

Field Observations:

1/28/09 13:10- Water color murky brown. No Foam. No Odor. Sky clear. Breezy. Ambient air temperature 69 °F. Initial %D.O. 100.4. Final %D.O. 99.5.

2/18/09 11:57- Sunny clear. Wind 0-5 mph. Clumps of white foam. Greenish-brown water color. Initial %D.O. 98.9.

DATE	TIME	ANALYSIS METHOD ⁵	AVERAGE FECAL COLIFORM ⁶
(MM/DD/YY)	(HH:MM)		(MPN/100ml) ⁷
01/28/09	11:30	Multiple Tube Fermentation	70,000 ⁸
02/18/09	11:26	Multiple Tube Fermentation	109,667

¹ Water Temperature is reported in units of degrees Celsius (°C).

² Dissolved Oxygen (DO) is reported in units of milligrams per liter.

³ Electrical Conductivity (EC) is reported in units of micromhos per centimeter.

⁴ Turbidity is reported in units of nephelometer turbidity units (NTUs).

⁵ Bacterial analysis completed by ATS Laboratory in Brawley, CA.

⁶ Three samples were collected and analyzed. The analysis results were averaged.

⁷ Fecal coliform density is reported in units of Most Probable Number (MPN) per 100 milliliters.

⁸ One sample result was reported as ≥160,000 MPN/100ml, calculated average using 160,000 MPN/100ml as the sample result.

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E.S. BABCOCK & SONS, INC. RIVERSIDE, CA			CONCENTRATION (mg/l) ⁹	
CONSTITUENT (GRAB) ¹⁰	METHOD	REPORTING LIMIT ¹¹	JANUARY 2009	FEBRUARY 2009
Total Hardness	SM3120B	6.0	970	1000
Calcium	EPA200.7	2.0	200	220
Magnesium	EPA200.7	2.0	110	120
Total Alkalinity	SM2320B	3.0	290	280
Hydroxide	SM2320B	3.0	ND ¹²	ND
Carbonate	SM2320B	3.0	ND	ND
Bicarbonate	SM2320B	3.0	360	350
Sulfate	EPA300.0	5.0	970	1000
Ammonia-Nitrogen	SM4500NH3H	0.50-1.0	7.7	7.1
Nitrate as N	EPA300.0	0.20	2	2
Nitrite as N	SM4500NO2B	0.10	0.27	0.32
Kjeldahl Nitrogen	EPA351.2	0.40-1.0	10	9.5
Ortho Phosphate-P	SM4500PE	0.10-0.25	0.19	.48
Total Phosphorus	SM4500PBE	0.10-0.25	1.6	1.5
Total Suspended Solids	SM2540D	5-10	31	11
BOD	SM5210B	8	20	12
COD	SM5220D	10-20	86	79
Oil & Grease (HEM)	EPA1664A	5.0	ND	ND
Phenols	EPA420.4	0.020	ND	.024
Turbidity (in NTU units)	SM2130B	0.20	NA ¹³	NA
MBAS	SM5540C	0.2-1.0	4.0	1.6

⁹ The concentrations are reported in units of milligrams per liter (mg/l).

¹⁰ Grab water samples were collected on January 28, 2009 and February 18, 2009.

¹¹ The reporting limit is the reportable detection limit of the analysis.

¹² Sample analysis reported constituent as non-detect.

¹³ The sample was not analyzed for this constituent.

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E.S. BABCOCK & SONS, INC. RIVERSIDE, CA			CONCENTRATION ($\mu\text{g/l}$) ¹⁴
CONSTITUENT (GRAB)	METHOD	REPORTING LIMIT	JANUARY 2009
As-Arsenic	EPA200.8	5.0	ND
Cd-Cadmium	EPA200.8	2.0	ND
Cr-Chromium(total)	EPA200.8	20	ND
Cu-Copper	EPA200.8	10	ND
Pb-Lead	EPA200.8	10	ND
Se-Selenium	EPA200.8	5	11
Zn-Zinc	EPA200.8	10	13
Hg-Mercury	EPA200.8	0.50	ND

E.S. BABCOCK & SONS, INC. RIVERSIDE, CA CONSTITUENT (GRAB SAMPLE) ¹⁵¹⁶	CONCENTRATION ($\mu\text{g/l}$)	
	Reporting Limit	January 28, 2009 13:30
Benzene	5.0	ND
Bromodichloromethane	5.0	ND
Bromoform	5.0	ND
Bromomethane (Methyl Bromide)	5.0	ND
Carbon Tetrachloride	5.0	ND
Chlorobenzene (Monochlorobenzene)	5.0	ND
Chloroethane	5.0	ND
Chloroform	5.0	ND
Chloromethane (Methyl Chloride)	5.0	ND
Dibromochloromethane	5.0	ND
1,2-Dichlorobenzene (o-DCB)	5.0	ND
1,3-Dichlorobenzene (m-DCB)	5.0	ND
1,4-Dichlorobenzene (p-DCB)	5.0	ND
Dichlorodifluoromethane (Freon 12)	5.0	ND
1,1-Dichloroethane (1,1-DCA)	5.0	ND

¹⁴ The concentrations are reported in units of micrograms per liter ($\mu\text{g/l}$).

¹⁵ VOCs were analyzed using USEPA Method 624.

¹⁶ A VOC sample was collected on 1/28/2009. No VOC sample was collected on 2/18/2009.

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E.S. BABCOCK & SONS, INC. RIVERSIDE, CA CONSTITUENT (GRAB SAMPLE) ¹⁵¹⁶	CONCENTRATION (ug/l)	
	Reporting Limit	January 28, 2009 13:30
1,2-Dichloroethane (1,2-DCA)	5.0	ND
1,1-Dichloroethylene (1,1-DCE)	5.0	ND
trans-1,2-Dichloroethylene	5.0	ND
1,2-Dichloropropane	5.0	ND
cis- & trans-1,3-Dichloropropene	5.0	ND
Ethyl benzene	5.0	ND
Methylene chloride (Dichloromethane)	30	ND
Methyl tert-Butyl Ether (MTBE)	50	ND
Tetrachloroethylene (PCE)	5.0	ND
Toluene	5.0	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5.0	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5.0	ND
Trichloroethylene (TCE)	5.0	ND
Trichlorofluoromethane (Freon 11)	50	ND
Vinyl chloride (VC)	5.0	ND
m,p-Xylenes	5.0	ND
o-Xylene	5.0	ND